04-03-06AP7 Rec'd PCT/PTO 31 MAR 2016 CT/4

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER: APLE 2 00009

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO. PCT/GB2004/004049

INTERNATIONAL FILING DATE
23 September 2004

PRIORITY DATE CLAIMED

2 October 2003

TITLE OF INVENTION

FRACTURING OF SUBTERRANEAN FORMATIONS APPLICANT(S) FOR DO/EO/US Crabtree et al. Applicant submits herewith to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 2. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include 3. items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). \boxtimes 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)) 🖾 is attached hereto (required only if not communicated by the International Bureau). A has been communicated by the International Bureau. b. is not required, as the application was filed in the United States Receiving Office (RO/US). C. \Box An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). b. 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. Ø An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 10. \square

Items 11 to 20 below concern document(s) or information included:

- 11. \square An Information Disclosure Statement, related PTO-Form 1449 and references (if required) under 37 CFR 1.97 and 1.98.
- 12.
 An Assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 included.
- 13. A Preliminary Amendment.

(35 U.S.C. 371(c)(5)).

- An Application Data Sheet.
- 15. A substitute specification.
- 16. A power of attorney and/or change of address letter.
- 17. A computer readable form of the sequence listing in accordance with PCT Rule 13.ter.2 and 37 CFR 1.821-1.825.
- 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4).
- 19. A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
- 20. Other items or information: ___

IAP20 Resid TETATA SI MAR 2006,

SUBSTITUTE FOR PTO-1390 (Rev. 12-2004)
Approved for use through 3/31/2007. OMB 0651-0021
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U.S. APPLICATION	Not (if though, See 37CFR) 5) INTERNATIONAL APPLICATIO PCT/GB2004/004049				ATTORNEY'S DOCKET No. APLE 2 00009	
21. Applicant(s) claim(s) small	entity status.	See 37 CFR 1	.27	Calculations	PTO Use Only
The following small						
22. 🛭 Basic nat	ional fee (37 Cl	\$150.00				
23. 🛛 Examinat	tion fee (37 CFF					
internation by IPEA/I of PCT A	ten opinion pre nal preliminary US indicates all rticle 33(1)-(4) situations	examination i	report prepared	\$0 \$100.00	\$100.00	•
24. 🛭 Search fe	e (37 CFR 1.49	92(b))				
internation by IPEA/ of PCT A Search for the internation of the services of th	ten opinion pre- preliminary US indicates all uticle 33-(1)-(4) ee (37 CFR 1.4- national applicational Searching a pral Search Rep n the US and p y communicate situations	\$200.00				
	TOTAL OF 22					
Surcharge of \$65.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					\$0.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	CALCULATIONS		
Total Claims	25 - 20 =	5	x \$25	= \$0.00	\$125.00	
Independent Claims	3 - 3 =	0	x \$100	= -\$0.00	\$0.00	٠.
Multiple Dependent Claim(s)		0	x \$180	= \$0.00	\$0.00	
Additional fee for specification and drawings filed in paper over 100 sheets	Group(s): (Group = number of each additional 50 or fraction thereof)		x \$125	= \$0.00	\$0.00	
		\$425.00				
Processing fee of than 30 months 1.492(i)).		\$0.00				
	-	\$0.00				
Fee for recording assignment must b CFR 3.28, 3.31).	e accompanie	\$0.00				
		\$425.00				

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petent and Trademark Office, U.S. Department of Commence, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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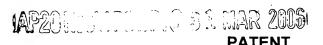
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a. 1		A check in the amount of \$ to cover the above fe	ees is enclosed.				
b. I		Please charge Deposit Account No. 06-0308 in the a sheet is enclosed.	amount of \$ to cover the fees identified. A duplicate of this				
c.	Ø	Fees indicated above are to be charged to a credit card. The appropriate form PTO-2038 is enclosed for this purpose. If the Credit Card is unable to be charged, please charge any and all fees or credit any overpayment to Deposit Account No. 06-0308.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
SEND ALL CORRESPONDENCE TO:							
Scot	tt A	A. McCollister	111111				
Fay, Sharpe, Fagan, Minnich & McKee, LLP 1100 Superior Avenue			Signature				
Seventh Floor			Scott A. McCollister				
Cleveland, OH 44114-2579			Name				
			33,961				
			Registration Number				
			March 31, 2006				
			Date				
I							

N:\template\P-SM-371 Transmittal with cal.doc

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

Crabtree et al.

FOR

FRACTURING OF SUBTERRANEAN

FORMATIONS

SERIAL NO.

To be assigned

FILED

Herewith

ATTORNEY DOCKET NO.

APLE 2 00009

CERTIFICATE OF EXPRESS MAILING UNDER 37 CFR 1.10

"Express Mail" Mailing Label Number:

EV 690752767 US

Date of Deposit:

March 31, 2006

I hereby certify that the attached *TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371* and accompanying documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10, addressed to: MAIL STOP PCT, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated above.

Georgeen B. Sonntag